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RECENT BOOKS AND PAMPHLETS.—Dr. H. G. Bronn's Klassen und Ordnungen des Thier-Reichs, Wissenschaftliche dargestellt in Wort und Bild. Fortgesetzt von Dr. A. Gerstaecker, Professor an der Universität, Fünfter Band, II Abtheilung. Gliederfüßler; Arthropoda 1, 2, 3, Lieferung. Roy. 8vo, pp. 96, VIII plates. Leipzig und Heidelberg, 1881.

Dr. H. G. Bronn's Klassen und Ordnungen des Thier-Reichs, Wissenschaftliche dargestellt in Wort und Bild. Fortgesetzt von C. K. Hoffmann, Doctor der Medicin und Philosophie, Professor in Leiden. Sechster Band. III Abtheilung. Reptilien 18, 19, 20 und 21, Lieferung. Royal 8vo, pp. 27, IX plates. Leipzig und Heidelberg.

Neue Reptilien von Guatemala und Westaustralien beschrieben. Von Dr. J. G. Fischer, in Hamburg. 8vo, pp. 16, 2 plates. Bonn, 1881. From the author.

Fauna der Gaskohle und der Kalksteine, der Permformation Böhmens. Von Dr. Ant. Fritsch. Band I, Heft 3. Roy. 4to, pp. 32, 12 plates, cuts. Prag, 1881. From the author.

Sur un procédé Coloration des Infusorises et des Eléments Anatomiques, pendant la vie. Par M. A. Certes. 4to, pp. 8. Paris, 1881. From the author.

Rapports des Commissions Internationales. Congrès Geologique International 2^{me} Session, Bologne, 1881. Imprimerie Fova et Gasagnani. Bologne, 1881. 8vo, pp. 140. From the commission.

Bibliothèque Universelle. Archives des Sciences Physiques et Naturalles, Troisième Periode. Tome v. Congrès Geologique International Session de Bologne, 1881. Report du Comité Suisse sur L'unification de la Nomenclature. Geneve, 1881. 8vo, pp. 14. From the author.

Note Complementaire sur la Preparation et la Conservation des Organismes. Par A. Gertes. Seance du 12 Avril, 1881. Extrait du Bulletin de la Société Zoologique de France. Pour L'Année, 1881. Paris. 8vo, pp. 4. From the society.

Le Moniteur de la Flotte. Lloyd Francais Organe des Intérêts Politiques, Maritimes et Commerciaux, de la France et des Colonies. Paris, 1881. From the publisher.

Le Musée Geologique de Lausanne en 1880. Rapport Adresse a la Commission des Musées par le conservateur, E. Renevier, professeur. 8vo, pp. 29. Bull. Soc. Vaud. Sc. Nat. XVII, 1 Sep. Lausanne, Juin 1, 1881. From the author.

Reseña Física y Geológica de la Provincia de Ciudad-Real. Por D. De Cortazar, Ingeniero Jefe del Cuerpo de Minas. Roy. 8vo, pp. 40, 1 map. Imprenta y fundicion de Monuell tello. Madrid, 1881. From the director.

Gaceta Cientifica de Venezuela, Revista Quincenal de las ciencias Medicas. 4to, pp. 10. Caracas, 1881. From the publisher.

Memoria Botanica Sobre el Embarbarcar O Sea. La Pesca por Medio de Plantas Venenosas. Por A. Ernst. (Del Tomo I de los esbrosos de Venezuela. Por A. A. Level.) 8vo, pp. 16. Imprenta Bolivar, 1881, Caracas. From the author.

Las Familias mas Importantes del Reino Vegetal especialmente las que son de interes en la Agricultura e industria, O que estan representadas en la Flora de Venezuela, Resumen del curso de Botanica sistimatica, leído en la Ilustre Universidad central. Por A. Ernst. 8vo, pp. 82. Imprenta de espinal e Hijos, Caracas, 1881. From the author.

Fenomenos Periodicos de la Vegetacion estudio correspondiente al ano de 1879. Por Mariano Bárcena, Director del Observatorio Meterologico Central. Imprenta de Francisco Diaz de Leon. Mexico, 1881. From the director.

Anales del Ministerio de Fomento de la Republic Mexicana. Tomo IV, royal 8vo, pp. 508. Imprenta de Francisco Diaz de Leon. Mexico, 1881. From the Observatorio Meterologico Central Mexicano.

Leucifer; a study in Morphology. By W. K. Brooks, associate in biology and director of the Chesapeake Zoological Laboratory of the Johns Hopkins University, Baltimore, Md., U. S. A. Communicated by Professor Huxley, Sec. R. S. Received April 6, 1881. From the Proceedings of the Royal Society, No. 212, 1881. 8vo, pp. 2. London, 1881. From the author.

The Scientific Roll and Magazine of Systematized Notes. Conducted by Alexander Ramsay, F. G. S. Climate. Vol. 1, May, 1881. London. From the editor.

A Catalogue of works on Natural History. By Bernard Quaritch. London, 1881. From the author.

Milford's Literary Microcosm. August. 4to, pp. 8, illustrated. New York, 1881. From the editor.

The later Tertiary of the Gulf of Mexico. By E. W. Hilgard, Berkeley, California. 8vo, pp. 12, 1 map. From the American Journal of Science, Vol. xxii, July, 1881. New Haven, 1881. From the author.

Census Bulletin No. 222. Ownership of the National Debt—Registered Bonds. By Robert P. Porter, special agent on Wealth, Debt and Taxation. 4to, pp. 10. Department of Interior, Government Printing Office, Washington, 1881. From Hon. Francis A. Walker, Superintendent of Census.

Notes on Salmonidæ of the Upper Columbia. By Capt. Chas. Bendire, U.S.A. pp. 40.

Observations on Siredon lichenoides. By Wm. E. Carlin. pp. 24.

Descriptions of New Fishes from Alaska and Siberia. By Tarleton H. Bean. pp. 66. From the Proceedings of United States National Museum (8vo, pp. 81). Government Printing Office, Washington, 1881. Through the Smithsonian Institution.

Extra Census Bulletin. Statistics of Life Insurance. 4to, pp. 74. Department of the Interior, Government Printing Office, Washington, 1881.

The Official Gazette of the United States Patent Office, containing the Patents, Trade-marks, Designs and Labels. Vol. xix, No. 26. Vol. xx, Nos. 2-4. Published by authority of Congress. Government Printing Office, Washington, 1881.

Report of the cruise of the U. S. Revenue Steamer "Corwin" in the Arctic ocean, By Captain C. L. Hooper, U.S.R.M. 8vo, pp. 76, cuts. Government Printing Office, Washington, 1881. From S. W. Clark, Chief Revenue Marine.

A memoir upon Loxolophodon and Uintatherium. Henry F. Osborn, Sc.D. Accompanied by a Stratigraphical Report of the Bridger beds in the Washakie basin, by John Bach McMaster, C.E. Vol. 1, No. 1. Contributions from the E. M. Museum of Geology and Archæology of the College of New Jersey. 4to, pp. 54, vi plates, map. Princeton, 1881. From the authors.

Book of the Black Bass. By Dr. J. A. Henshall. 8vo, pp. 468, plates and cuts. Bound. Robert Clarke & Co. Cincinnati, 1881. From the publishers.

New species of Fossils, and remarks upon others, from the Niagara group of Illinois. By S. A. Miller, Esq. 8vo, pp. 11, 1 plate. From the Journal of the Cincinnati Society of Natural History. Cincinnati, 1881. From the author.

The Palæontologist, June 10, 1881.

Contributions to Palæontology; Fossils of the Lower Silurian Formation; Ohio, Indiana and Kentucky. By U. P. James. Roy. 8vo. pp. 12. Cincinnati, 1881. From the author.

The Journal of the Cincinnati Society of Natural History, July, Vol. iv, No. 2. 8vo, pp. 90, 2 plates. Cincinnati, 1881. From the society.

Proceedings of the California Academy of Sciences, at its regular meeting held June 6, 1881. Reception of Lt. Robert M. Berry, U.S.N., commanding the U. S. Steamer "Rodgers" of the Jeannette Search Expedition. 8vo, pp. 20. San Francisco, 1881. From the society.

The State and Higher Education; an address before the Minnesota Academy of Natural Sciences. By Professor N. H. Winchell. 8vo, pp. 18. Ext. from the Academy. Minneapolis, 1881. From the author.

Index to papers on Anthropology. Published by the Smithsonian Institution, 1847 to 1878. 8vo, pp. 8. Reprint from the Smithsonian Report for 1879. Government Printing Office, Washington, 1881.

North American Mesozoic and Cænozoic Geology and Palæontology; or an abridged history of our knowledge of the Triassic, Jurassic, Cretaceous and Tertiary formations of the Continent. By S. A. Miller. 8vo, pp. 338. From the Journal of

the Cincinnati Society of Natural History, Oct., 1879. Cincinnati, 1881. From the author.

The Foundation of American Dermatology; being the President's address at fourth annual meeting of the American Dermatological Association held at Newport, R. I., August 31, 1881. By Louis A. Duhring, M.D. 8vo, pp.30. Ext. from the Transactions of the Association. Philadelphia, 1881. From the author.

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GENERAL NOTES.

BOTANY.¹

BOTANY IN MINNESOTA.—The University of Minnesota opened, during July, a Summer School of Science, in which instruction by lectures and laboratory practice was furnished in chemistry (Professor Dodge), geology (Professor Hall), and botany (Professor Bessey). About forty teachers enrolled themselves for the courses. The botanical laboratory, supplied with twenty-five microscopes, was open from 9 A.M. to 5 P.M., excepting the lecture hour, from 11 to 12 o'clock. The Mississippi river, above and below the falls of St. Anthony, and the long cañon, with its high cliffs, extending from the falls to Fort Snelling, together with the innumerable lakes in the vicinity of Minneapolis, supplied an abundance of material for study. The cooler climate of Minnesota made work possible even in the heated term of this ever-to-be-remembered July. The laboratory course may be given in outline as follows: I. *General Histology of Plants.*—Protoplasm in hairs and tissues, cells, cell walls and their markings, chlorophyll, starch, plant crystals, parenchyma, collenchyma, sclerenchyma, fibrous tissue, laticiferous tissue, sieve tissue, tracheary tissue, epidermis, stomata, hairs, fibro-vascular bundles. II. *The Structure and Physiology of Cryptogams.*—(1) The Sexless Plants (Protophyta) Protococcus, Nostoc, Oscillatoria, Rivularia, yeast plant, Bacteria; (2) The Unisexual Plants (Zygosporeæ), Hydrodictyon, Conferva, Desmids, Diatoms, Spirogyra, Mucor; (3) The Egg-spore Plants (Oösporeæ), CEdogonium, Vaucheria, Peronosporæ, Cystopus, Fucus; (4) The Red Seaweeds and their allies (Carposporeæ), Podosphæra, Eurotium, Parmelia, Puccinia, Agaricus; (5) The Mosses and their allies (Bryophyta), Marchantia, Mnium; (6) The Ferns and their allies (Pteridophyta), fern prothallia, and fruiting, Pteris, Polypodium, Selaginella. III. *The Structure and Physiology of Phanerogams.*—The structure of Gymnosperms; the sexual reproduction of Monocotyledons; the sexual reproduction of Dicotyledons.

THE STUDY OF ALGÆ IN THE UNITED STATES.—About nine years ago Dr. H. C. Wood, of Philadelphia, published his now well known "Contribution to the history of the fresh water Algæ of North America," which made it possible for the student to begin the systematic study of our fresh water species. Within

¹ Edited by PROF. C. E. BESSEY, Ames, Iowa.